



SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Drucker, Daniel J.
- (ii) TITLE OF INVENTION: GLUCAGON-LIKE PEPTIDE-2 AND ITS THERAPEUTIC USE
- (iii) NUMBER OF SEQUENCES: 4
- (iv) CORRESPONDENCE ADDRESS:
 - (A) ADDRESSEE: Pennie & Edmonds LLP
 - (B) STREET: 1155 Avenue of the Americas
 - (C) CITY: New York
 - (D) STATE: New York
 - (E) COUNTRY: USA
 - (F) ZIP: 10036-2711
- (v) COMPUTER READABLE FORM:
 - (A) MEDIUM TYPE: Floppy disk
 - (B) COMPUTER: IBM PC compatible
 - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
 - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
 - (A) APPLICATION NUMBER: US 08/632,533
 - (B) FILING DATE: 12-APR-1996
 - (C) CLASSIFICATION:
- (viii) ATTORNEY/AGENT INFORMATION:
 - (A) NAME: Friebe, Thomas E.
 - (B) REGISTRATION NUMBER: 29,258
 - (C) REFERENCE/DOCKET NUMBER: 8607-004
- (ix) TELECOMMUNICATION INFORMATION:
 - (A) TELEPHONE: (212)790-9090
 - (B) TELEFAX: (212)869-8864/9741

(2) INFORMATION FOR SEQ ID NO:1:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 37 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: unknown
- (ii) MOLECULE TYPE: peptide
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 1
 - (D) OTHER INFORMATION: /note= "An amino acid selected from His, Arg, or Lys. Xaa may or may not be present in the sequence."
- (ix) FEATURE:
 - (A) NAME/KEY: Modified-site
 - (B) LOCATION: 2
 - (D) OTHER INFORMATION: /note= "An amino acid selected from His, Arg, or Lys. Xaa may or may not be present in the sequence."

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- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 15
 (D) OTHER INFORMATION: /note= "An amino acid selected from Met, Leu, Ile, Val or Cys."
- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 18
 (D) OTHER INFORMATION: /note= "An amino acid selected from Ala, Ser, Thr, Pro, Gly, Asn, Asp, Glu or Gln."
- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 21
 (D) OTHER INFORMATION: /note= "An amino acid selected from Ala, Ser, Thr, Pro or Gly."
- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 22
 (D) OTHER INFORMATION: /note= "An amino acid selected from His, Arg or Lys."
- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 29
 (D) OTHER INFORMATION: /note= "An amino acid selected from Met, Leu, Ile, Val or Cys."
- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 30
 (D) OTHER INFORMATION: /note= "An amino acid selected from Asn, Asp, Glu, Gln, His, Arg or Lys."
- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 36
 (D) OTHER INFORMATION: /note= "An amino acid selected from His, Arg or Lys. Xaa may or may not be present in the sequence."
- (ix) FEATURE:
 (A) NAME/KEY: Modified-site
 (B) LOCATION: 37
 (D) OTHER INFORMATION: /note= "An amino acid selected from His, Arg or Lys. Xaa may or may not be present in the sequence."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

Xaa	Xaa	His	Ala	Asp	Gly	Ser	Phe	Ser	Asp	Glu	Met	Asn	Thr	Xaa	Leu
1				5					10					15	
Asp	Xaa	Leu	Ala	Xaa	Xaa	Asp	Phe	Ile	Asn	Trp	Leu	Xaa	Xaa	Thr	Lys
			20					25					30		
Ile	Thr	Asp	Xaa	Xaa											
			35												

(2) INFORMATION FOR SEQ ID NO:2:

- (i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 37 amino acids

- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 1
- (D) OTHER INFORMATION: /note= "An amino acid selected from His, Arg, or Lys. Xaa may or may not be present in the sequence."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 2
- (D) OTHER INFORMATION: /note= "An amino acid selected from His, Arg, or Lys. Xaa may or may not be present in the sequence."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 21
- (D) OTHER INFORMATION: /note= "An amino acid selected from Ala, Ser, Thr, Pro or Gly."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 36
- (D) OTHER INFORMATION: /note= "An amino acid selected from His, Arg, or Lys. Xaa may or may not be present in the sequence."

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 37
- (D) OTHER INFORMATION: /note= An amino acid selected from His, Arg, or Lys. Xaa may or may not be present in the sequence."

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

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Xaa Xaa His Ala Asp Gly Ser Phe Ser Asp Glu Met Asn Thr Ile Leu
 1             5             10             15
Asp Asn Leu Ala Xaa Arg Asp Phe Ile Asn Trp Leu Ile Gln Thr Lys
          20             25             30
Ile Thr Asp Xaa Xaa
          35

```

(2) INFORMATION FOR SEQ ID NO:3:

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 33 amino acids
 - (B) TYPE: amino acid
 - (C) STRANDEDNESS:
 - (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

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His Ala Asp Gly Ser Phe Ser Asp Glu Met Asn Thr Ile Leu Asp Asn
 1             5             10             15

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Leu Ala Thr Arg Asp Phe Ile Asn Trp Leu Ile Gln Thr Lys Ile Thr
 20 25 30

Asp

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 33 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: unknown

(ii) MOLECULE TYPE: peptide

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

His Ala Asp Gly Ser Phe Ser Asp Glu Met Asn Thr Ile Leu Asp Asn
 1 5 10 15

Leu Ala Ala Arg Asp Phe Ile Asn Trp Leu Ile Gln Thr Lys Ile Thr
 20 25 30

Asp